WARM-UP! Put this on a sheet of paper that you can turn in!
SHOW ALL YOUR WORK :)

1. $12 \div (4^2 - 10) \bullet 3$

2. $43 - 5 + 6 \bullet 5$

3. $4\frac{2}{3} + 7\frac{9}{11}$

4. $10\frac{1}{10} - 5\frac{3}{4}$

5. $2\frac{4}{5} \bullet 5\frac{5}{7}$

6. $\frac{5}{6} \div \frac{15}{18}$

$3(7) + 5 + 4$

$30

34

$$[10+(5^2 \cdot 2)] \div 6$$

$$[10+(25 \cdot 2)] \div 6$$

$$[10+50] \div 6$$

$$60 \div 6$$

$$10$$

29

$$10 \div (3+2) + 9$$

22

$$\frac{9}{10} \cdot \frac{1}{2} - \frac{3}{10}$$

$$\frac{9}{20} - \frac{3}{10} \cdot \frac{2}{2}$$

$$\frac{9}{20} - \frac{6}{20} = \frac{3}{20}$$

36

$\frac{1}{2} \cdot 26 - 9$

$13 - 9$

4

38

$$\frac{9 \cdot 2}{4+3^2-1}$$

$$\frac{18}{4+9-1}$$

$$\frac{18}{13-1}$$

$$\frac{18}{12} = 1\frac{1}{2}$$

40

$$\frac{5^3 \cdot 2}{1+6^2-8}$$

$$\frac{125 \cdot 2}{1+36-8}$$

$$\frac{250}{37-8}$$

$$\frac{250}{29}$$

1.5 A Problem- Solving Plan Using Models

Fill in words or phrases for each operation.

ADD	SUBTRACT
• plus • together • add • sum • more than • greater than • large • increased	• minus • take away • decreased • less than • difference • smaller than

MULTIPLY	DIVIDE
• times • product • by • square • cubed • double • triple • of • half	• quotient • in groups of • split • half • third

Translate the following phrases into algebraic expressions.

$8 + 2 \cdot x$

$8 + x \cdot 2$

$7x - 6$

$7 - 6 \cdot x$ $7x - 6$

8 + 2x

OR

2x + 8

7x - 6

$2x + 8$

$x \cdot 2 + 8$

$(7 - 6) \cdot x$

$\cdot 2x - 7$ $7 - 2x$

5(x + 10)

OR

5(10 + x)

2x - 7

$x \cdot 2 - 7$

$5(x+10)$ $(10+x)\cdot 5$

$(x+10)\cdot 5$

Translate the following phrases into algebraic equations.

$3 + \frac{n}{4} = 20$

$10x - 5 = 8$

$3 + \frac{n}{4} = 20$

$10x - 5 = 8$

Translate the following phrases into algebraic inequalities.